

Form PTO-1439

INFORMATION DISCLOSURE CITATION

IN AN APPLICATION

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Docket Number (Optional)

TUV-005.01

Application Number

09/690,647

Applicant

Andrew S. Greenberg

Filing Date

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1635

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
Mus	AA	5,730,975	3/24/98	Hotamisligil		
	AB	5,663,313	9/2/97	Hawkins et al.		
	AC	5,663,314	9/2/97	Seeger et al.		
	AD	5,595,904	1/21/97	Boulton et al.		
	AE	5,459,036	10/17/95	Lechner et al.		
	AF	5,405,941	4/11/95	Johnson		
	AG	5,859,051	1/12/99	Adams et al.		
	AH	5,605,808	2/25/97	Karin et al.		
	AI	5,712,283	1/27/98	Kaan et al.		
	AJ	5,708,012	1/13/98	Olefsky		
	AK	5,712,265	1/27/98	Cincotta et al.		

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
Mus	AL	WO 95/21923	8/17/95	PCT			
	AM	WO 94/23039	10/13/94	PCT			
	AN	WO 97/02347	1/23/97	PCT			
	AO	WO 97/06245	2/20/97	PCT			
	AP	WO 96/36642	11/21/96	PCT			

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

Mus	AQ	Ricote, M. et al. (1998), The Peroxisome Proliferator-Activated Receptor-γ is a Negative Regulator of Macrophage Activation, <i>Nature</i> 391:79.					
	AR	Jiang, C. et al. (1998), PPAR-γ Agonists Inhibit Production of Monocyte Inflammatory Cytokines, <i>Nature</i> 391:82.					
	AS	Shepard, P. et al. (1999), Glucose Transporters and Insulin Action, <i>New Eng. J. of Med.</i> 341(4):248.					
	AT	Knopp, R. (1999), Drug Treatment of Lipid Disorders, <i>New Eng. J. of Med.</i> 341(7):498.					
	AU	Suga, J. et al. (1997), Differential Activation of Mitogen-Activated Protein Kinase by Insulin and Epidermal Growth Factor in 3T3-L1 Adipocytes, <i>Diabetes</i> 46:735.					

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MAUS	AV	Hotamisligil, G. et al. (1994), Reduced Tyrosine Kinase Activity of the Insulin Receptor in Obesity-Diabetes, <i>J. Clin. Invest.</i> 94:1543.
	AW	Kim, S. et al. (1997), Insulin Regulation of Mitogen-Activated Protein Kinase Kinase (MEK), Mitogen-Activated Protein Kinase and Casein Kinase in the Cell Nucleus: A Possible Role in the Regulation of the Gene Expression, <i>Biochem J.</i> 323:621.
	AX	Souza, S. et al. (1998), BRL 49653 Blocks the Lipolytic Actions of Tumor Necrosis Factor- α , <i>Diabetes</i> 47:691.
	AY	Souza, S. et al. (1997), Salicylic Acid Decreases the Ability of Tumor Necrosis Factor (TNF- α) to Increase Lipolysis in 3T3-L1 Adipocytes, <i>FASEB J.</i> 11(3):919.
	AZ	Wang, C. et al. (1998), Effects of Cell-Permeable Ceramides and Tumor Necrosis Factor- α on Insulin Signaling and Glucose Uptake in 3T3-L1 Adipocytes, <i>Diabetes</i> 47:24.
	BA	Camp, H. et al. (), Phosphorylation of PPARγ by the JNK Signal Transduction Pathway, 132.
	BB	Hu, E. et al. (1996), Inhibition of Adipogenesis Through MAP Kinase-Mediated Phosphorylationh of PPAR γ , <i>Science</i> 274:2100.
	BC	Biomol Research News (1997), Antisense Reagents, 6(1).
	BD	Rizzo, M. et al. (1996), Arachidonic Acid Mediates Interleukin-1 and Tumor Necrosis Factor- α - Induced Activation of the c-jun Amino Terminal Kinases in Stromal Cells, <i>Blood</i> 88(10):3792.
	BE	Robertson, R.P. (1988), Eicosanoids as Pluripotential Modulators of Pancreatic Islet Function, <i>Diabetes</i> 37:367.
	BF	Tebbey, P. et al. (1994), Arachidonic Acid Down-Regulates the Insulin-Dependent Glucose Transporter Gene (GLUT4) in 3T3-L1 Adipocytes by Inhibiting Transcription and Enhancing mRNA Turnover, <i>J. Bio. Chem.</i> 269(1):639.
	BG	Feinstein, R. et al. (1993), Tumor Necrosis Factor- α Suppresses Insulin-Induced Tyrosine Phosphorylation of Insulin Receptor and its Substrates, <i>J. Bio. Chem.</i> 268(35):26055.
	BH	Lehmann, J. et al. (1995), An Antidiabetic Thiazolidinedione is a High Affinity Ligend for Peroxisome Proliferator-Activated Receptor γ (PPAR γ), <i>J. Bio. Chem.</i> 270(22):12953.
	BI	Ibrahimi, A. et al. (1994), Evidence for a Common Mechanism of Action for Fatty Acids and Thiazolidinedione Antidiabetic Agents on Gene Expression in Preadipose Cells, <i>Molecular Pharmacology</i> 46:1070.
	BJ	Cobb, M.H. et al. (1995), How MAP Kinases are Regulated, <i>J. Bio. Chem.</i> 270(25):14843.
	BK	Liu, Z. et al. (1996), Dissection of TNF Receptor 1 Effector Functions: JNK Activation is Not Linked to Apoptosis While NF- κ B Activation Prevents Cell Death, <i>Cell</i> 87:565.
	BL	Oakes, N. et al (1994), A New Antidiabetic Agent, BRL 49653, Reduces Lipid Availability and Improves Insulin Action and Glucoregulation in the Rat, <i>Diabetes</i> 43:203.

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mus	BM	Vane, J.R. (1974), Inhibition of Prostaglandin Synthesis as a Mechanism of Action for Aspirin-Like Drugs, <i>Nature New Bio.</i> 231:238.
	BN	Kyriakis, J.M. et al. (1994), The Stress-Activated Protein Kinase Subfamily of c-Jun Kinases, <i>Nature</i> 369:156.
	BO	Vossler, M.R. et al. (1997), cAMP Activates MAP Kinase and Elk-1 Through a B-Raf- and Rap1-Dependent Pathway, <i>Cell</i> 89:73.
	BP	Feingold, K.R. et al. (1992), Stimulation of Lipolysis in Cultured Fat Cells by Tumor Necrosis Factor, Interleukin-1, and the Interferons is Blocked by Inhibition of Prostaglandin Synthesis, <i>Endo</i> 130(1):10.
	BQ	Hotamisligil, G.S. et al. (1995), Increased Adipose Tissue Expression of Tumor Necrosis Factor- α in Human Obesity and Insulin Resistance, <i>J. Clin. Invest.</i> 95:2409.
	BR	Kern, P.A. et al (1995), The Expression of Tumor Necrosis Factor in Human Adipose Tissue, <i>J. Clin. Invest.</i> 95:2111.
	BS	Roden, M. et al. (1996), Mechanism of Free Fatty Acid-Induced Insulin Resistance in Humans, <i>J. Clin. Invest.</i> 97(12):2859.
	BT	Smith, U. (1994), Carbohydrates, Fat, and Insulin Action, <i>Am. J. Clin. Nutr.</i> 59:686S.
	BU	Nolan, J.J. et al. (1994), Improvement in Glucose Tolerance and Insulin Resistance in Obese Subjects Treated with Troglitazone, <i>New Eng. J. of Med.</i> 331(18):1188.
	BV	Beutler, B. (1995), TNF, Immunity and Inflammatory Disease: Lessons of the Past Decade, <i>J. Invest. Med.</i> 43(3):227.
	BW	Kroder, G. et al. (1996), Tumor Necrosis Factor- α -and Hyperglycemia-Induced Insulin Resistance, <i>J. Clin. Invest.</i> 97(6):1471.
	BX	Hardardottir, I. et al. (1992), Cytokines Stimulate Lipolysis and Decrease Lipoprotein Lipase Activity in Cultured Fat Cells by a Prostaglandin Independent Mechanism, <i>Biochem. And Biophys. Res. Comm.</i> 186(1): 237.
	BY	Zhang, C. et al. (1997), Mitogen-Activated Protein (MAP) Kinase Regulates Production of Tumor Necrosis Factor- α and Release of Arachidonic Acid in Mast Cells, <i>J. Bio. Chem</i> 272(20):13397.
	BZ	Lehmann, J.M. et al. (1997), Peroxisome Proliferator-Activated Receptors α and γ Are Activated by Indomethacin and Other Non-steroidal Anti-inflammatory Drugs, <i>J. Bio. Chem.</i> 272(6):3406.
	CA	Boden, G. (1997), Role of Fatty Acids in the Pathogenesis of Insulin Resistance and NIDDM, <i>Diabetes</i> 46:3.
	CB	Reaven, G.M. (1988), Role of Insulin Resistance in Human Disease, <i>Diabetes</i> 37:1595.
✓	CC	Hotamisligil, G.S. et al (1994), Tumor Necrosis Factor α : A Key Component of the Obesity-Diabetes Link, <i>Diabetes</i> 43:1271.

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Mms	CD	Dunaif, A. et al. (1996), The Insulin-Sensitizing Agent Troglitazone Improves Metabolic and Reproductive Abnormalities in the Polycystic Ovary Syndrome, <i>J. Clin. Endocrinology and Metabolism</i> 81(9):3299.
	CE	Davis, R.J. (1994), MAPKs: New JNK Expands the Group, <i>TIBS</i> 19:470.
	CF	Long, S.D. (1996), Regulation of GLUT4 Gene Expression by Arachidonic Acid, <i>J. Bio. Chem.</i> 271(2):1138.
	CG	Tebbey, P.W. (1994), Arachidonic Acid Down-Regulates the Insulin-Dependent Glucose Transporter Gene (GLUT4) in 3T3-L1 Adipocytes by Inhibiting Transcription and Enhancing mRNA Turnover, <i>J. Bio. Chem.</i> 269(1):639.
	CH	Robertson, R.P. et al (1977), A Role for Prostaglandin E in Defective Insulin Secretion and Carbohydrate Intolerance in Diabetes Mellitus, <i>J. Clin. Invest.</i> 60:747.
	CI	Blumer, K.J. et al (1994), Diversity in Function and Regulation of MAP Kinase Pathways, <i>TIBS</i> 19:236.
	CJ	Zhang, B. et al. (1996), Insulin- and Mitogen Activated Protein Kinase-Mediated Phosphorylation and Activation of Peroxisome Proliferator-Activated Receptor γ , <i>J. Bio. Chem.</i> 271(50):31771.
	CK	Szalkowski, D. et al. (1995), Antidiabetic Thiazolidinediones Block the Inhibitory Effect of Tumor Necrosis Factor- α on Differentiation, Insulin-Stimulated Glucose Uptake, and Gene Expression in 3T3-L1 Cells, <i>Endocrinology</i> 136(4):1474.
	CL	Fanger, G.R. et al. (1997), MEKKs, GCKs, MLKs, TAKs, and Tpls: Upstream Regulators of the c-Jun Amino-Terminal Kinases?, <i>Curr. Opin. Genetics and Development</i> 7:67.
	CM	Schwenger, P. et al (1996), Inhibition of Tumor Necrosis Factor-Induced p42/p44 Mitogen-Activated Protein Kinase Activation by Sodium Salicylate, <i>J. Bio. Chem.</i> 271(14):8089.
	CN	Schwenger, P. et al. (1997), Sodium Salicylate Induces Apoptosis Via p38 Mitogen-Activated Protein Kinase but Inhibits Tumor Necrosis Factor-Induced c-Jun N-Terminal Kinase/Stress-Activated Protein Kinase Activation, <i>Proc. Natl. Acad. Sci. USA</i> 94:2869.
	CO	Ehrmann, D.A. et al. (1997), Troglitazone Improves Defects in Insulin Action, Insulin Secretion, Ovarian Steroidogenesis, and Fibrinolysis in Women with Polycystic Ovary Syndrome, <i>J. Clin. Endocrinology and Metabolism</i> 82(7):2108.
	CP	Camp, H.S. et al. (1999), c-Jun N-Terminal Kinase Phosphorylates Peroxisome Proliferator-Activated Receptor- γ 1 and Negatively Regulates Its Transcriptional Activity, <i>Endocrinology</i> 140(1):392.
	CQ	Kyriakis, J.M. et al. (1996), Protein Kinase Cascades Activated by Stress and Inflammatory Cytokines, <i>BioEssays</i> 18(7):567.
	CR	Skolnik, E.Y. et al. (1996), Inhibition of Insulin Receptor Signaling by TNF: Potential Role in Obesity and Non-Insulin-Dependent Diabetes Mellitus, <i>Cytokine & Growth Factor Reviews</i> 7(2):161.
	CS	Lopes-Virella, M.F. et al. (1996), Cytokines, Modified Lipoproteins, and Arteriosclerosis in Diabetes, <i>Diabetes</i> 45(3):S40.
✓	CT	Pampfer, S. et al. (1997), Increased Synthesis of Tumor Necrosis Factor- α in Uterine Explants From Pregnant Diabetic Rats and in Primary Cultures of Uterine Cells in High Glucose, <i>Diabetes</i> 46:1214.

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CU	Haneda, M. et al. (1997), Mitogen-Activated Protein Kinase Cascade is Activated in Glomeruli of Diabetic Rats and Glomerular Mesangial Cells Cultured Under High Glucose Conditions, <i>Diabetes</i> 46:847.
CV	Argiles, J.M. et al. (1997), Journey from Cachexia to Obesity by TNF, <i>FASEB J.</i> 11(10):743.
CW	McMurray, R.W. (1996), Adhesion Molecules in Autoimmune Disease, <i>Semin Arthritis Rheum.</i> 25:215.
CX	Ravussin, E. (1995), Metabolic Differences and the Development of Obesity, <i>Metabolism</i> 44(9):12.
CY	Probert, L. et al. (1996), Dissection of the Pathologies Induced by Transmembrane and Wild-Type Tumor Necrosis Factor in Transgenic Mice, <i>J. Leukocyte Bio.</i> 59:518.
CZ	Bonni, A. et al. (1997), Regulation of Gliogenesis in the Central Nervous System by the JAK-STAT Signaling Pathway, <i>Science</i> 278:477.
DA	Argiles, J.M. et al. (1994), Cytokines and Diabetes: The Final Step?, <i>Horm. Metab. Res.</i> 26:447.
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DC	Fromm, G.H. et al. (1993), A Clinical and Experimental Investigation of the Effects of Tizanidine in Trigeminal Neuralgia, <i>Pain</i> 53:265.
DD	Samad, F. et al. (1997), The Fat Mouse: A Powerful Genetic Model to Study Elevated Plasminogen Activator Inhibitor 1 in Obesity/NIDDM, <i>Thromb. Haemost.</i> 78(1):652.
DE	Flavell, R.A. et al. (1996), The Contribution of Insulinitis to Diabetes Development in Tumor Necrosis Factor Transgenic Mice, <i>Curr. Top. Microbiol. Immunol.</i> 206:33.
DF	Cunningham, J.M. et al. (1994), Cytokines, Nitric Oxide and Insulin Secreting Cells, <i>Growth Regulation</i> 4:173.
DG	Van De Merwe, T.J. et al. (1984), A Double-Blind Non-Crossover Placebo-Controlled Study Between Group Comparison of Trazodone and Amitriptyline on Cardiovascular Function in Major Depressive Disorder, <i>Psychopathology</i> 17(2):64.
DH	Kellerer, M. et al. (1995), Pathogenesis of Insulin Resistance: Modulation of the Insulin Signal at Receptor Level, <i>Diabetes Res. And Clin. Prac.</i> 28:S173.
DI	Di Tella, A.S. et al. (1986), Determination of Trazodone and Its Metabolite, m-CPP, in Serum and Urine by HPLC, <i>J. Analytical Toxicology</i> 10:233.
DJ	Haller, H. et al. (1996), The Role of Hyperglycemia and Hyperinsulinemia in the Pathogenesis of Diabetic Angiopathy, <i>Clin. Nephrology</i> 46(4):246.
DK	Sugimoto, H. (1996), Energy Substrate Metabolism During Stress, <i>Nippon Geka Gakkai Zasshi</i> 97(9):726.

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PCT International Search Report, PCT/US99/08364.

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Souza, S.C. et al. (1998), The P38 Map Kinase Inhibitor, SB 203580, Increases TNF- α -Induced Lipolysis in 3T3-L1 Adipocytes, *Intl J. Obesity* 22:110.Font de Mora, J. et al. (1997), Mitogen-Activated Protein Kinase Activation is not Necessary for, but Antagonizes, 3T3-L1 Adipocytic Differentiation, *Molecular and Cellular Bio.* 17(10):6068.Schwenger, P. et al. (1998), Activation of p38 Mitogen-Activated Protein Kinase by Sodium Salicylate Leads to Inhibition of Tumor Necrosis Factor-Induced I κ B α Phosphorylation and Degradation, *Molecular and Cellular Bio.* 18(1):78.Vic-Mo, H. et al. (1978), Effects of Sodium Salicylate on Plasma Insulin Concentration and Fatty Acid Turnover in Dogs, *Acta. Physiol. Scand.* 103:113.Schonhofer, P.S. et al. (1972), Effects of Sodium Salicylate and Acetylsalicylic Acid on the Lipolytic System of Fat Cells, *Biochem. Pharm.* 22:629.Stone, Daniel B. et al. (1969), Effect of Sodium Salicylate on Induced Lipolysis in Isolated Fat Cells of the Rat, *Metabolism* 18(7):620.Kletzien, R. et al. (1995), Activation of a Novel Map Kinase by TNF α : Ramifications for Insulin Signal Transduction, *FASEB J.* XP002117006.Foellmi-Adams, L.A. et al. (1995), Selective Attenuation of Insulin Activation of MAP Kinase by Tumor Necrosis Factor- α , *FASEB J.* XP002117007.Sale, E.M. et al. (1995), Requirement of MAP Kinase for Differentiation of Fibroblasts to Adipocytes, for Insulin Activation of p90 S6 Kinase and for Insulin or Serum Stimulation of DNA Synthesis, *EMBO J.* 14(4):674.Kliwer, S.A. et al. (1995), A prostaglandin J2 Metabolite Binds Peroxisome Proliferator - Activated Receptor γ and Promotes Adipocyte Differentiation, *Cell* 83:813.Pearson, S.L. et al. (1996), The Thiazolidinedione Insulin Sensitizer, BRL 49653, Increases the Expression of PPAR- γ and aP2 in Adipose Tissue of High-Fat-Fed Rats, *Biochem. And Biophys. Res. Comm.* 229:752.Souza, S.C. et al. (1998), the P38 MAP Kinase Inhibitor, SB 203580, Increases TNF- α -Induced Lipolysis in 3T3-L1 Adipocytes, *Intl. J. Obesity* 22(3):P58.

EXAMINER

M. Schmidt

DATE CONSIDERED

9/10/01

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.

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